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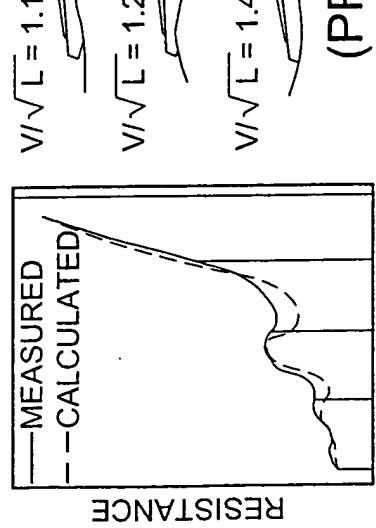


FIG. 1 (PRIOR ART)

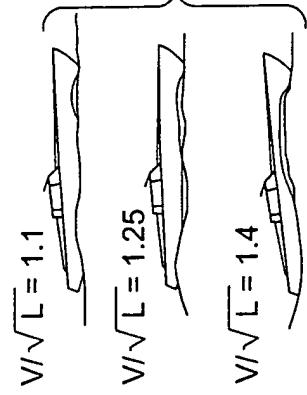


FIG. 2 (PRIOR ART)

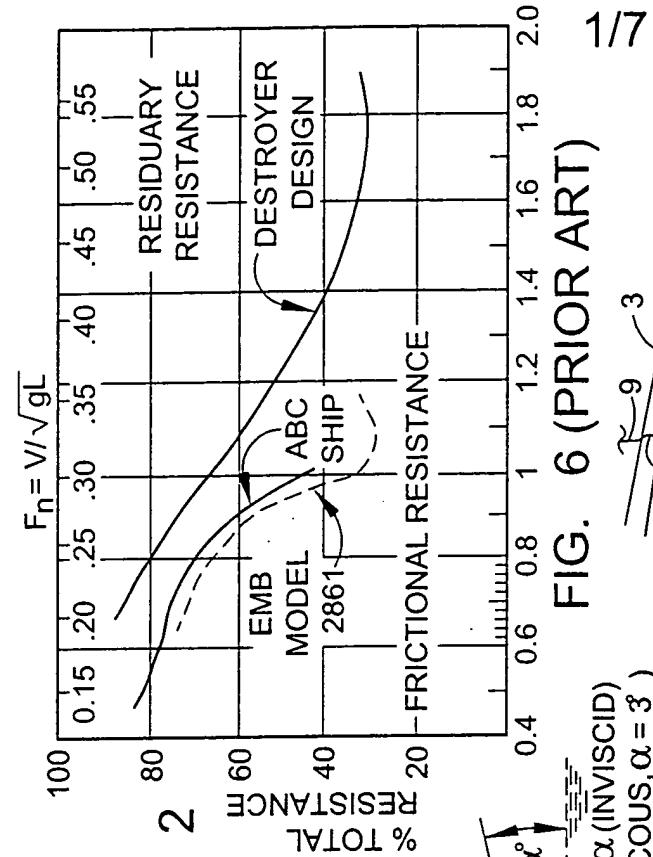


FIG. 3 (PRIOR ART)

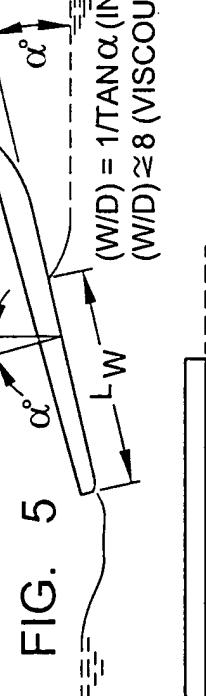


FIG. 4 (PRIOR ART)

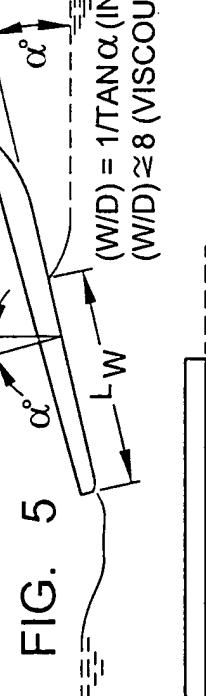


FIG. 5 (PRIOR ART)

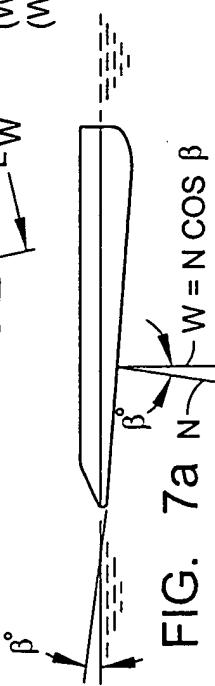


FIG. 6 (PRIOR ART)

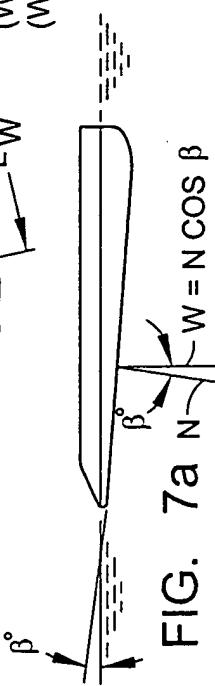


FIG. 7a (PRIOR ART)

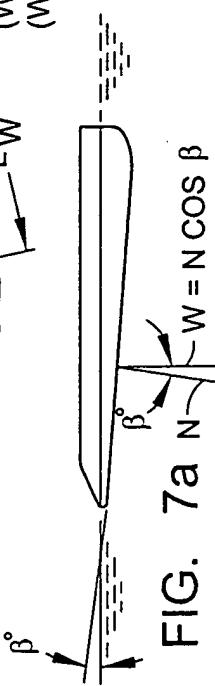


FIG. 7b (PRIOR ART)

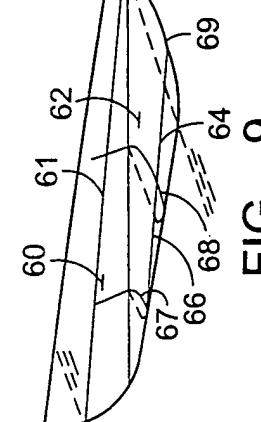


FIG. 8 (PRIOR ART)

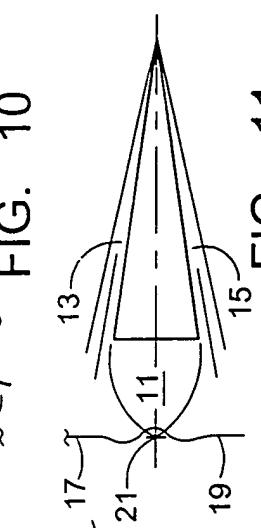


FIG. 9 (PRIOR ART)

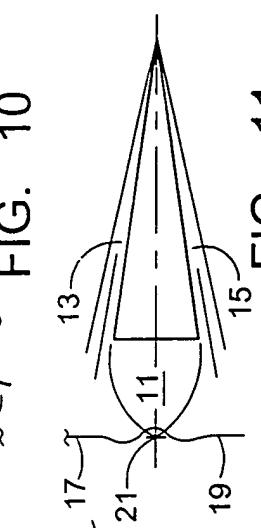


FIG. 10 (PRIOR ART)

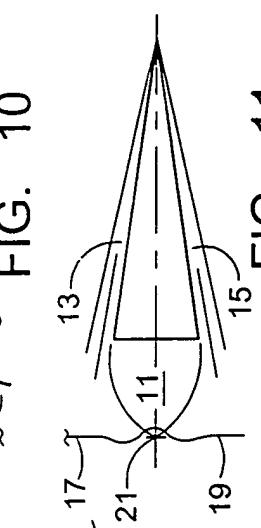


FIG. 11 (PRIOR ART)

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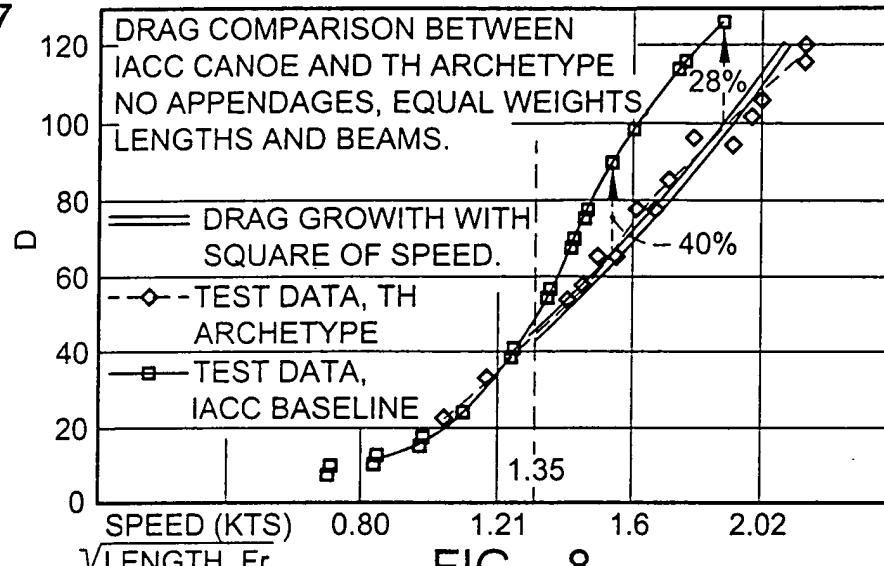


FIG. 8

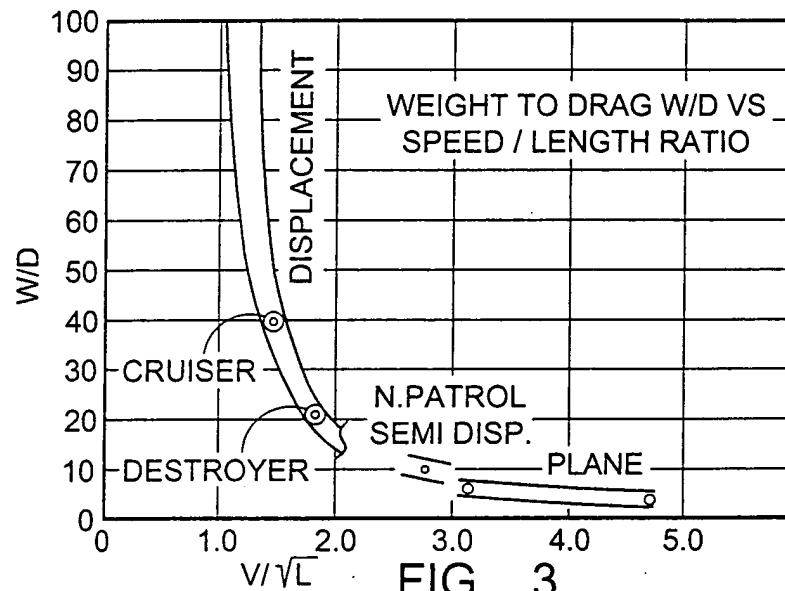
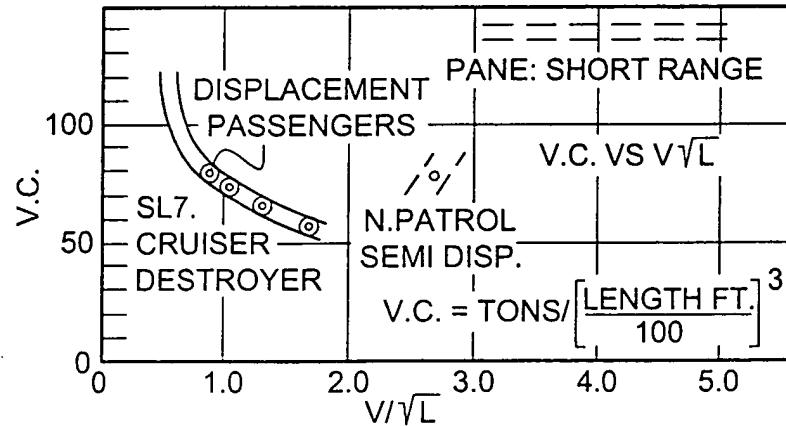


FIG. 3

FIG. 4 TYPICAL VOLUMETRIC COEFFICIENTS V.C.
AS FUNCTIONS OF SPEED TO LENGTH RATIO V/VL

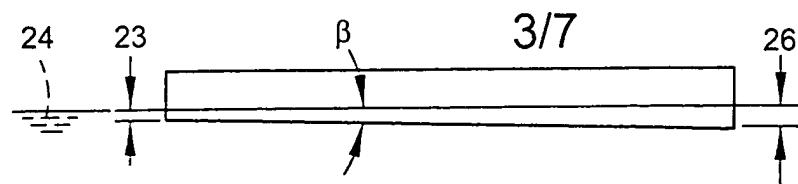


FIG. 12a
 $V/\sqrt{L} = 0$

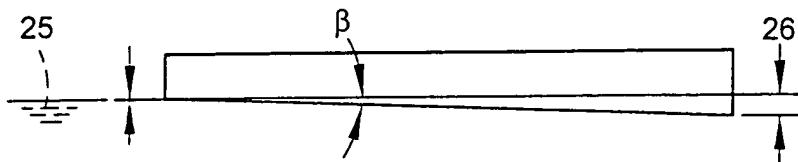


FIG. 12b
SUPERCritical
 $V/\sqrt{L} > 1.25$

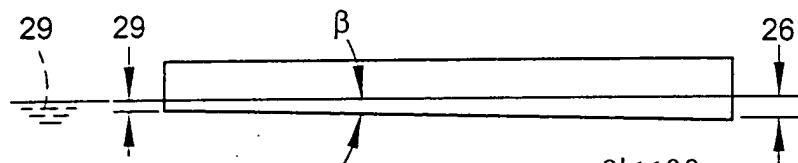


FIG. 13a
 $V/\sqrt{L} = 0$

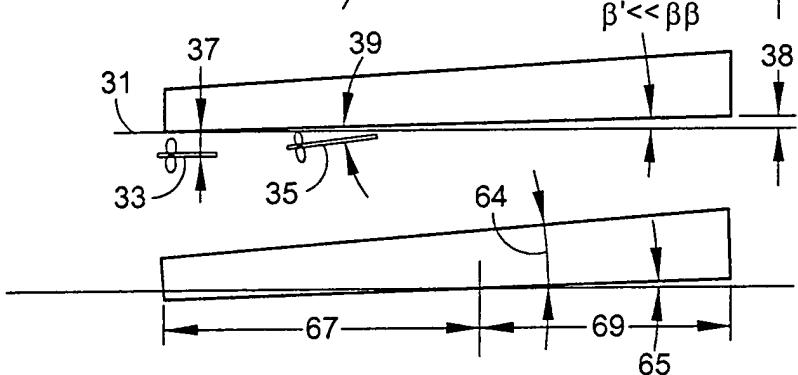


FIG. 13b
HYPERCRITICAL
 $V/\sqrt{L} > 2.0$

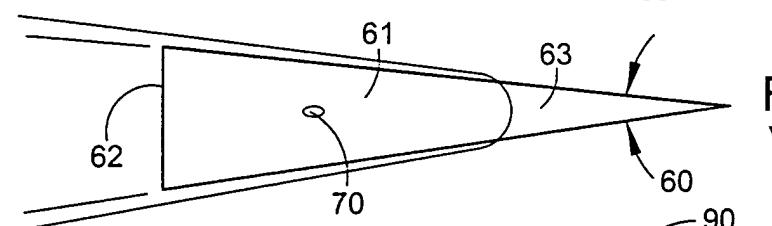


FIG. 14a
 $V/\sqrt{L} \geq 3.0$

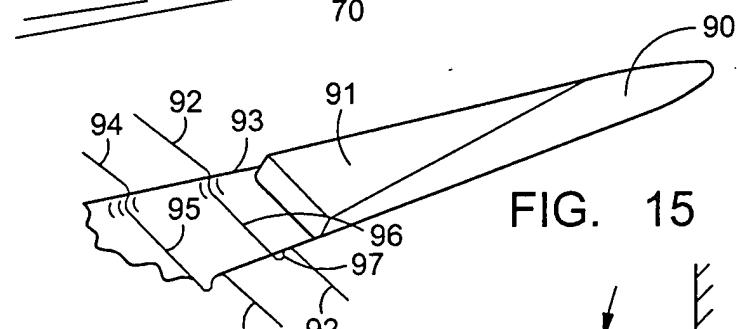


FIG. 15

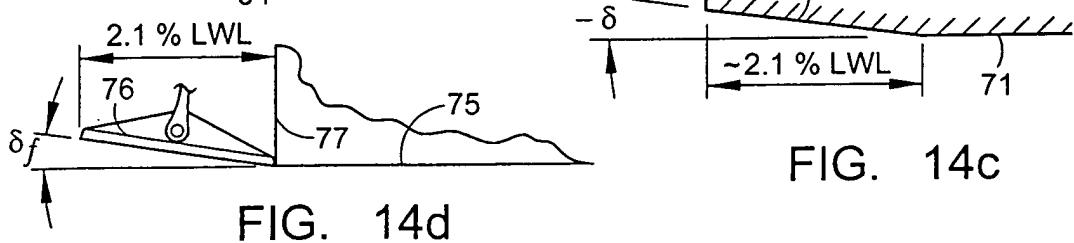


FIG. 14c

FIG. 14d

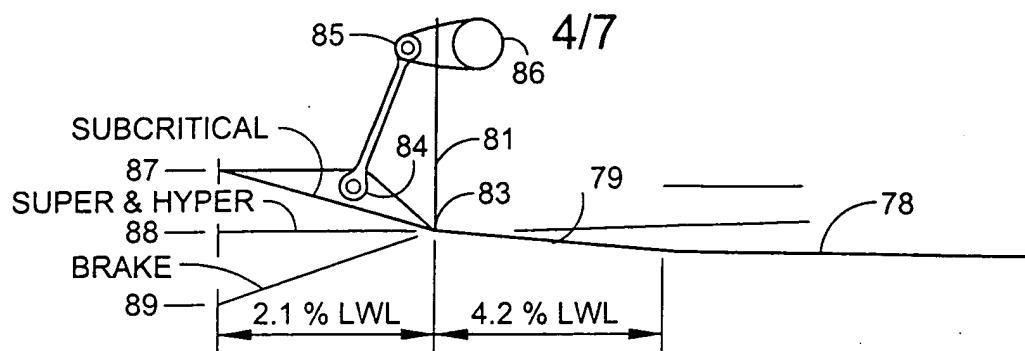


FIG. 14e

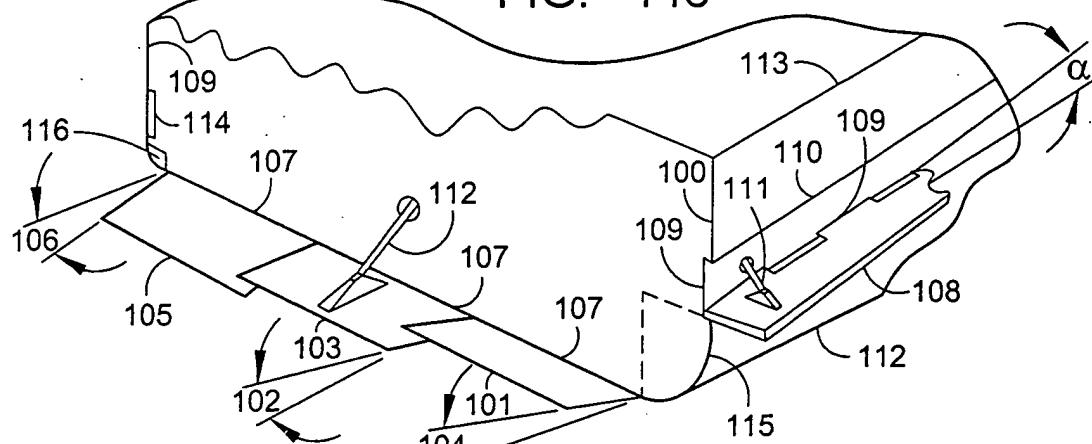


FIG. 16

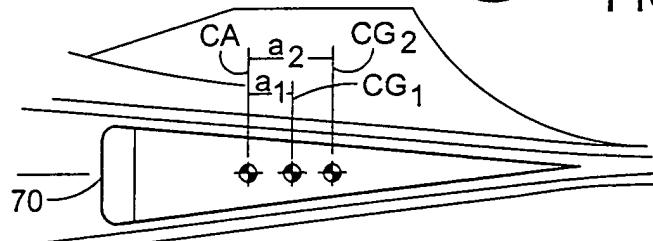


FIG. 19

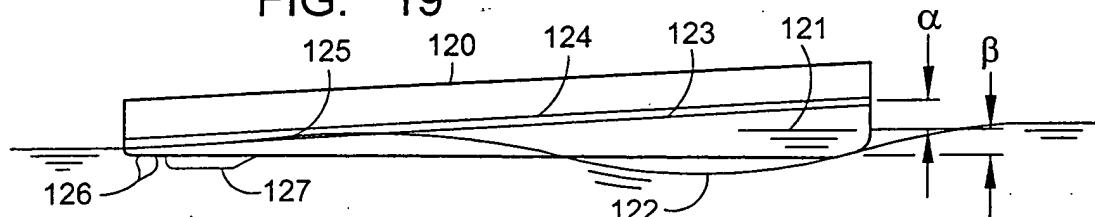


FIG. 17

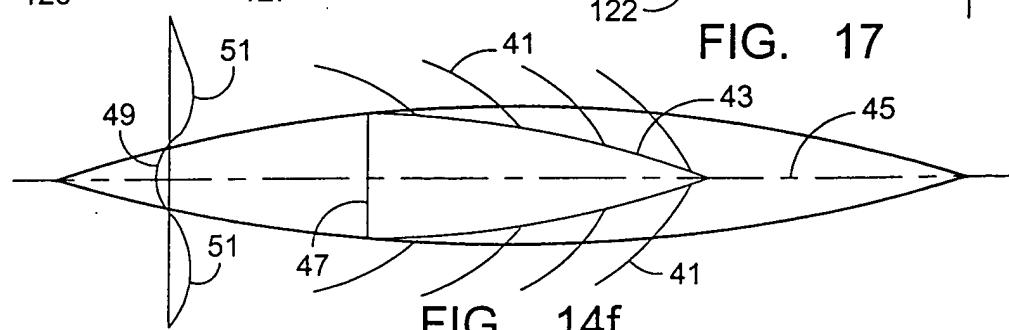
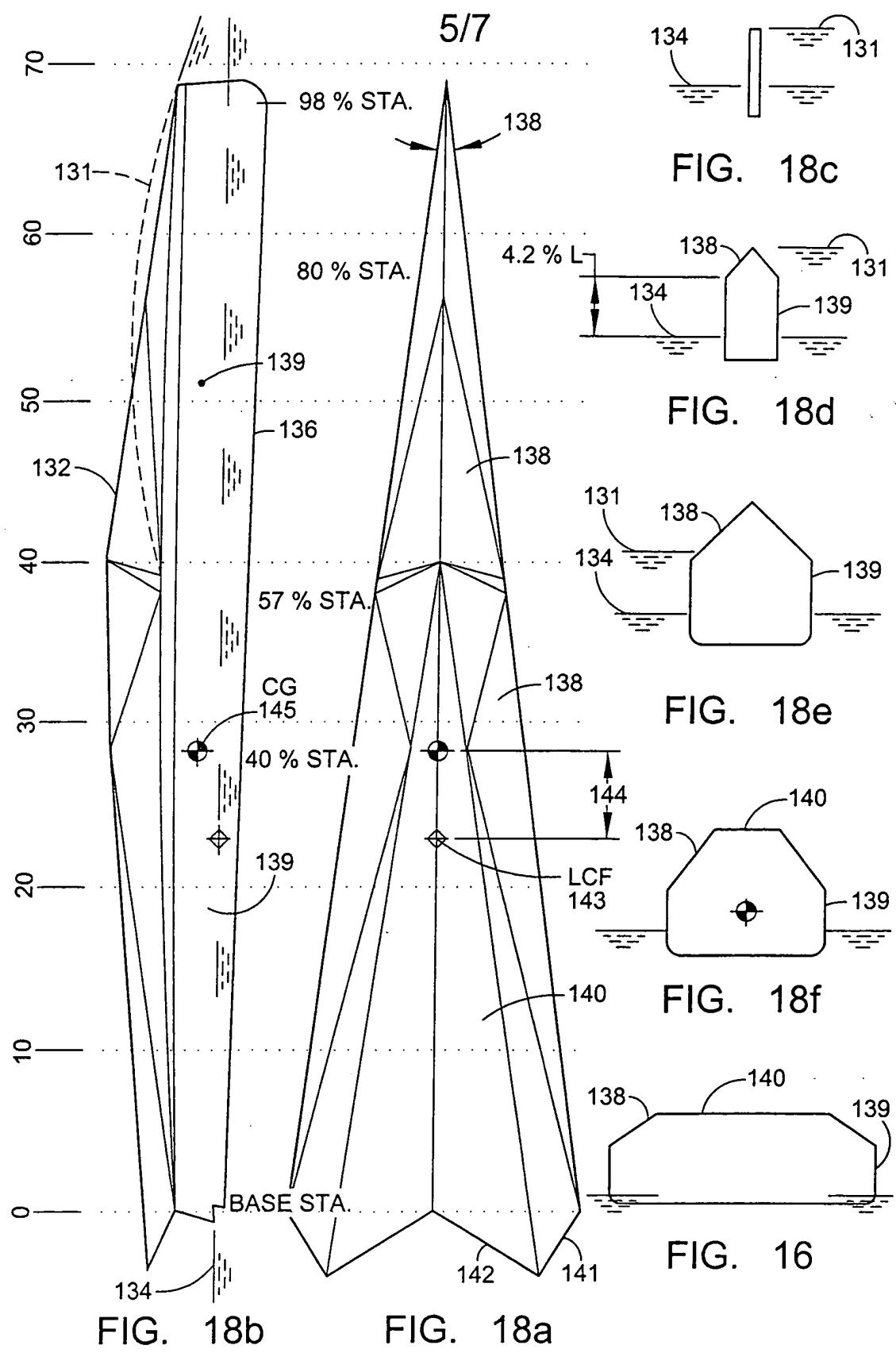
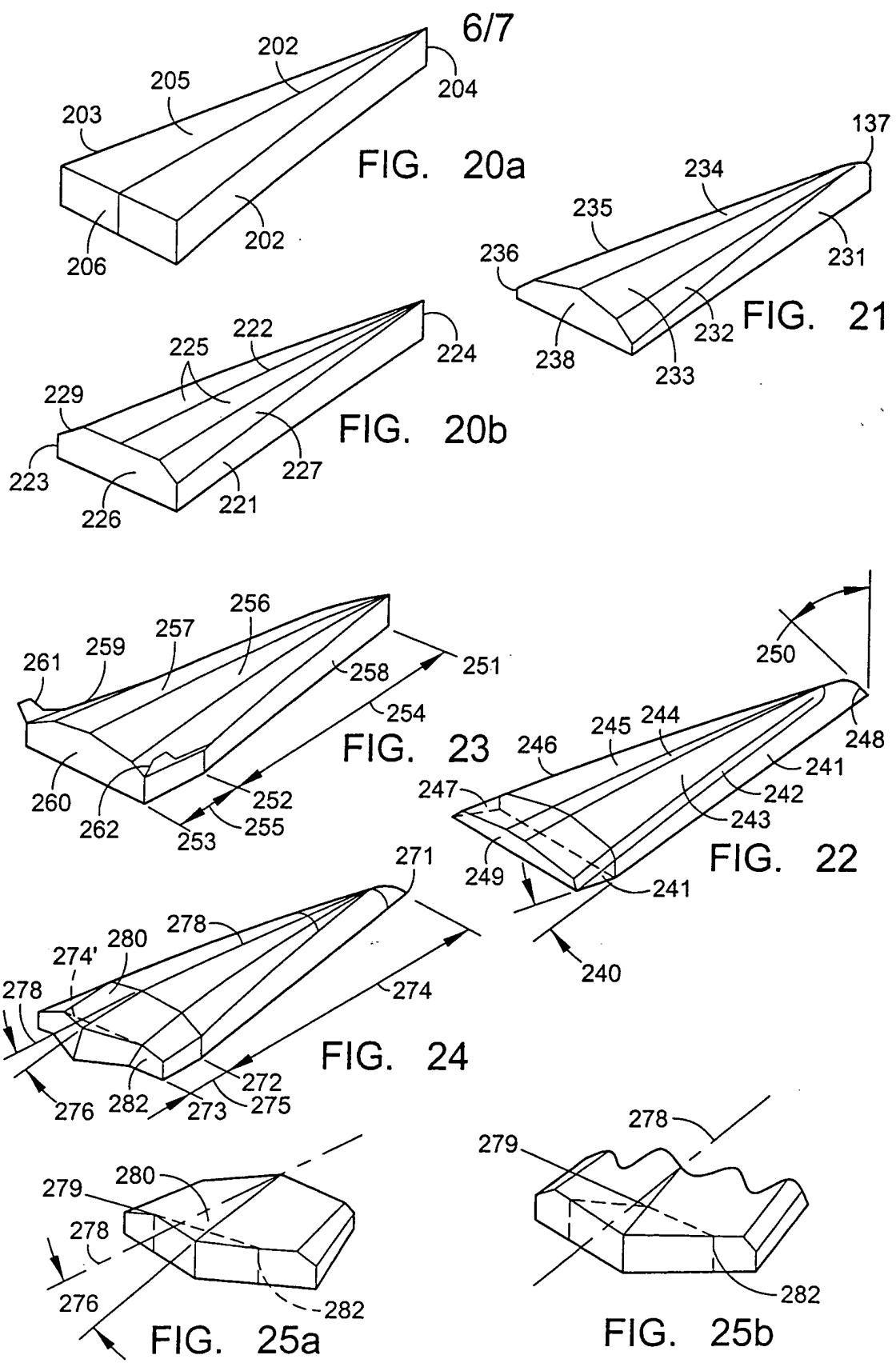


FIG. 14f





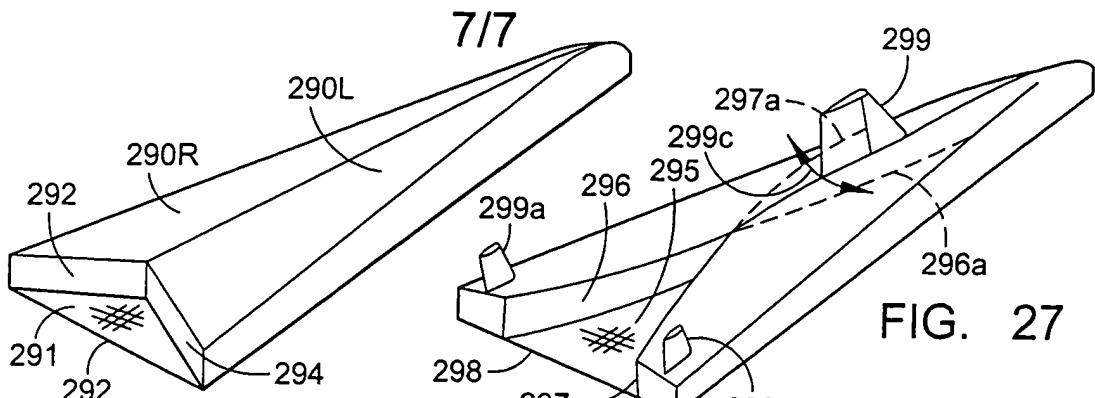


FIG. 26

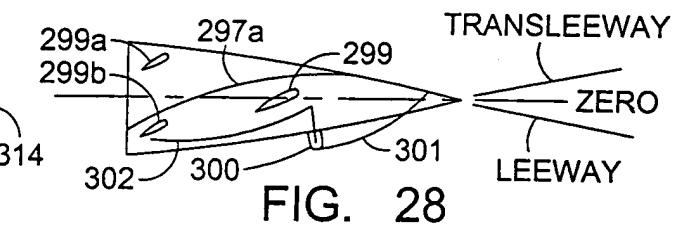


FIG. 28

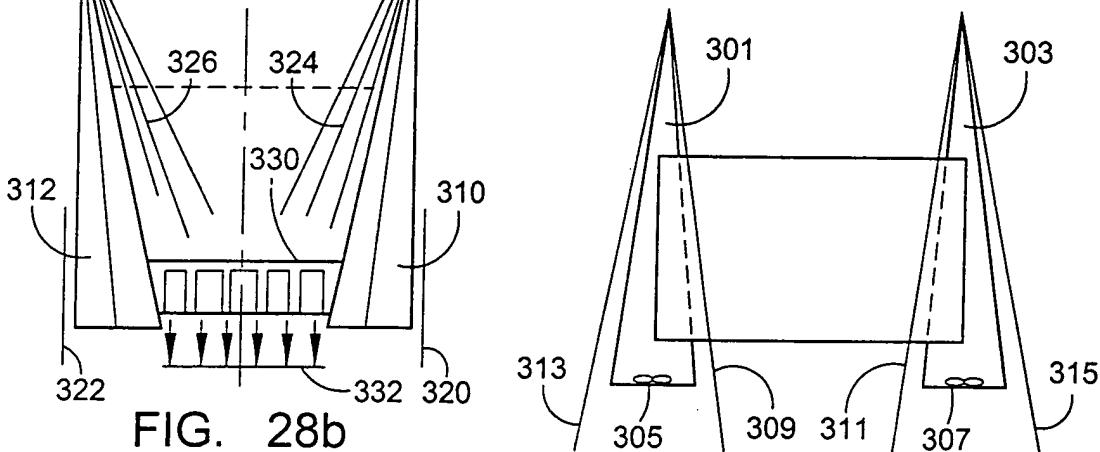


FIG. 28b

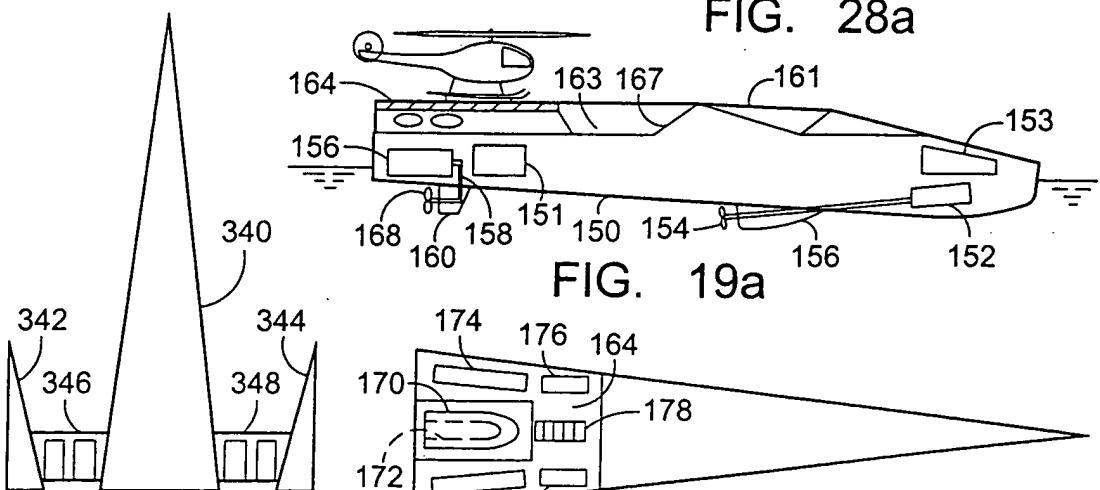


FIG. 19a

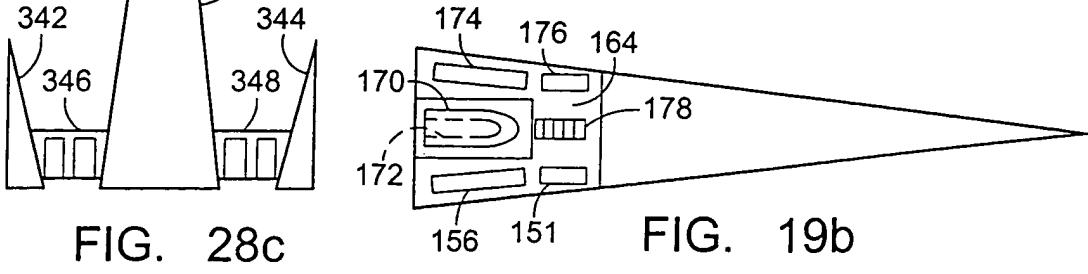


FIG. 28c

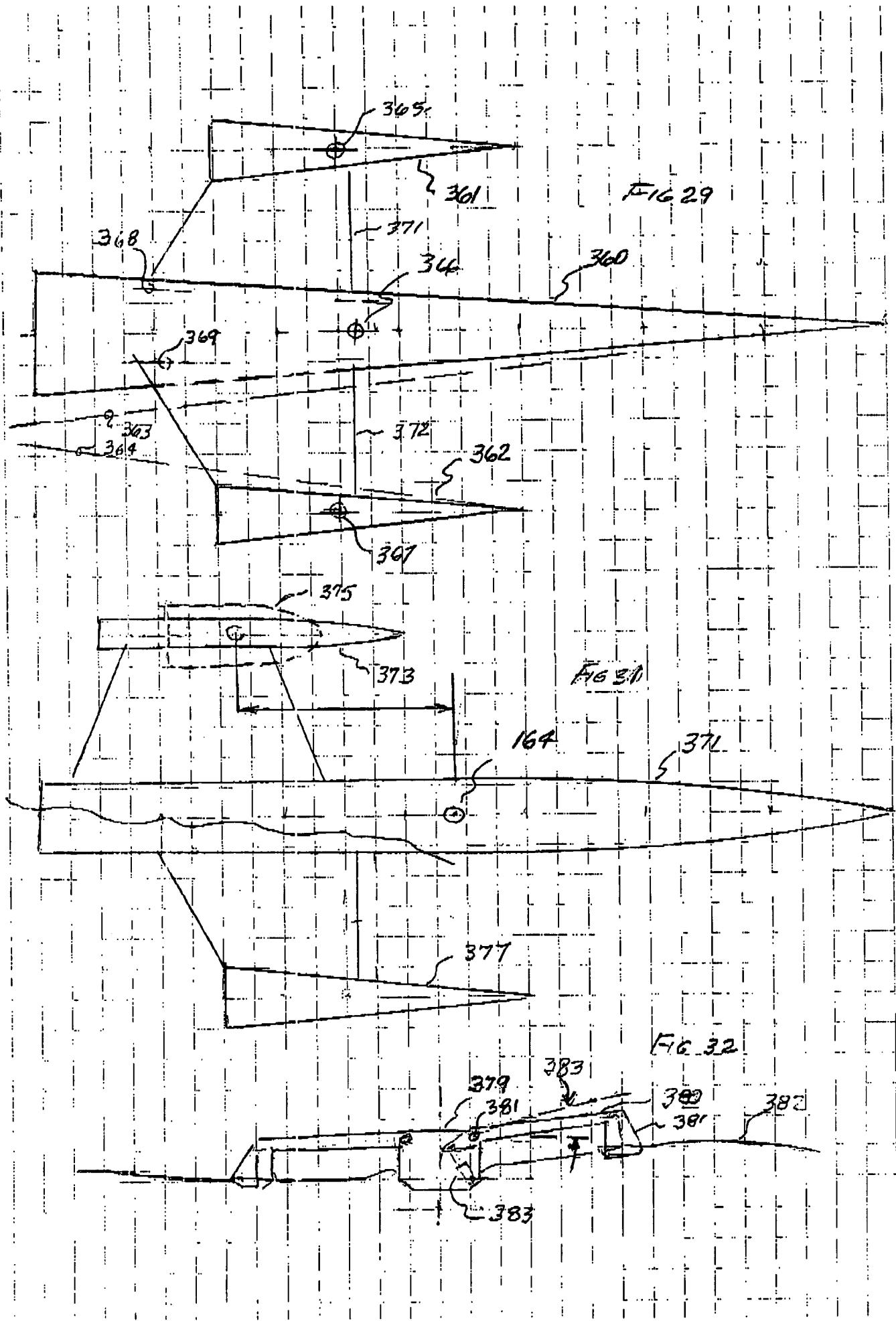


Fig 30

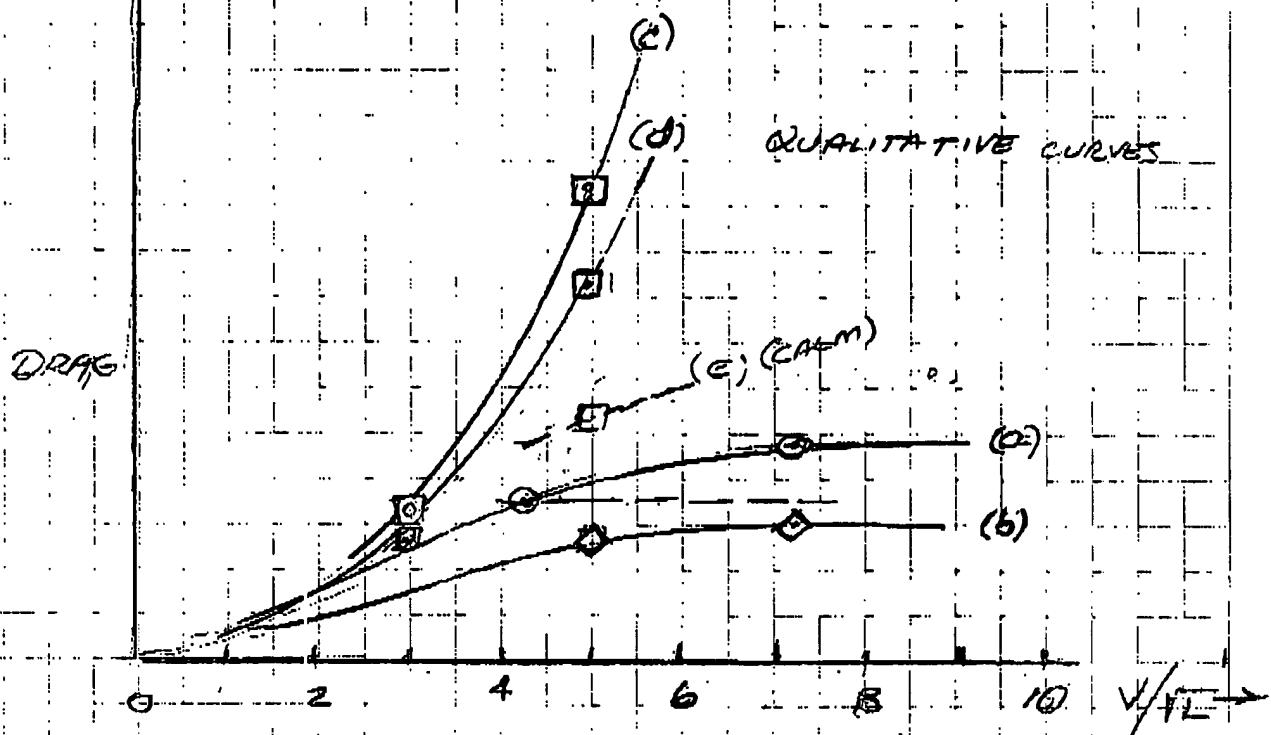
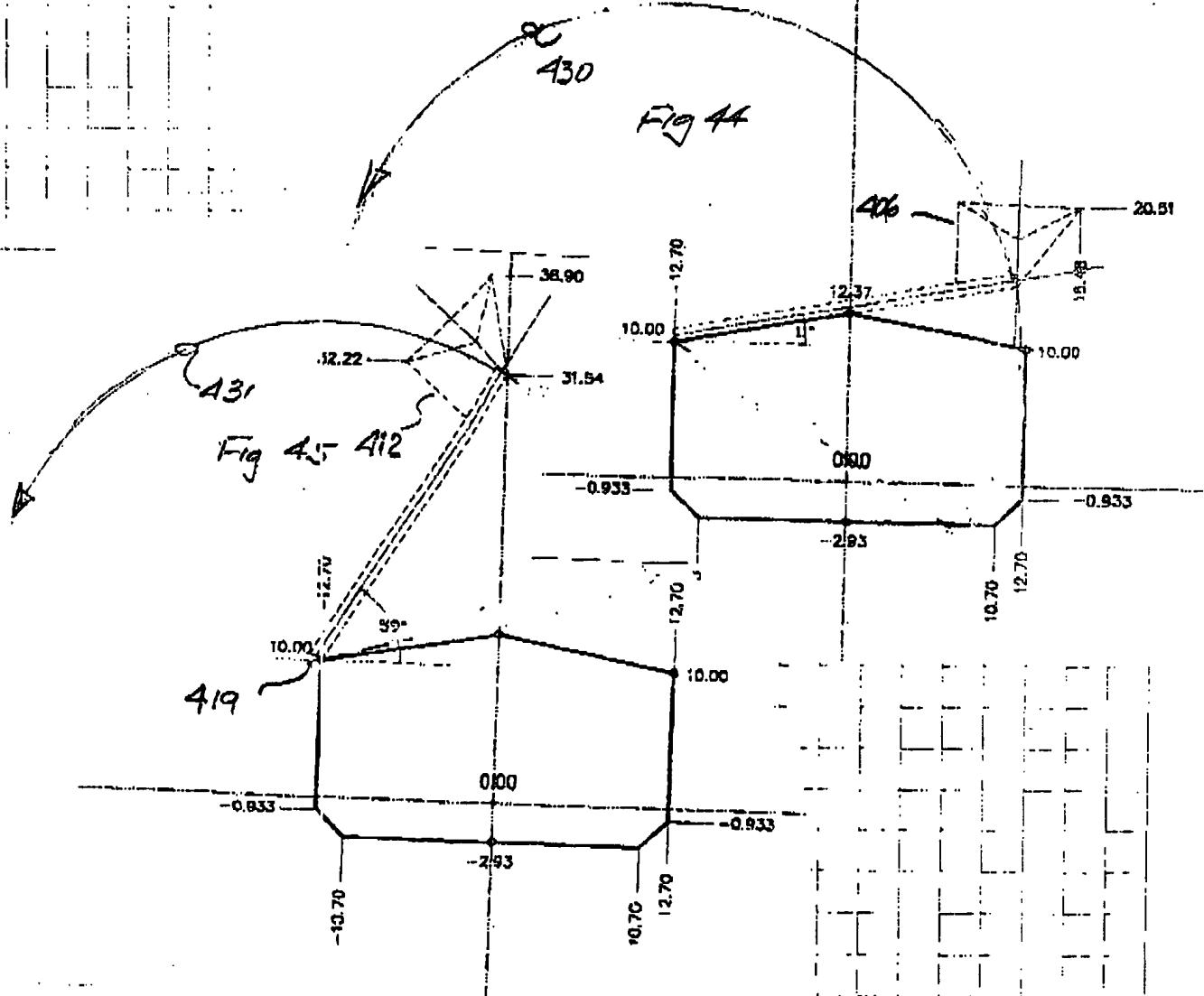


Fig 44



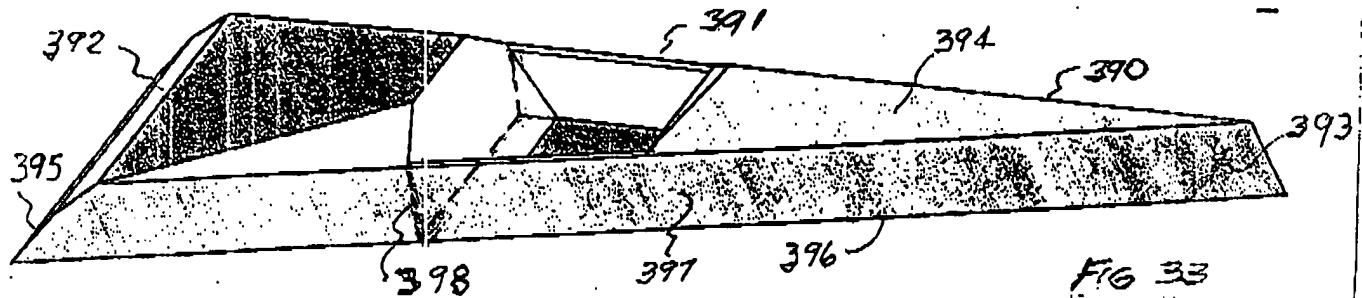


FIG 33

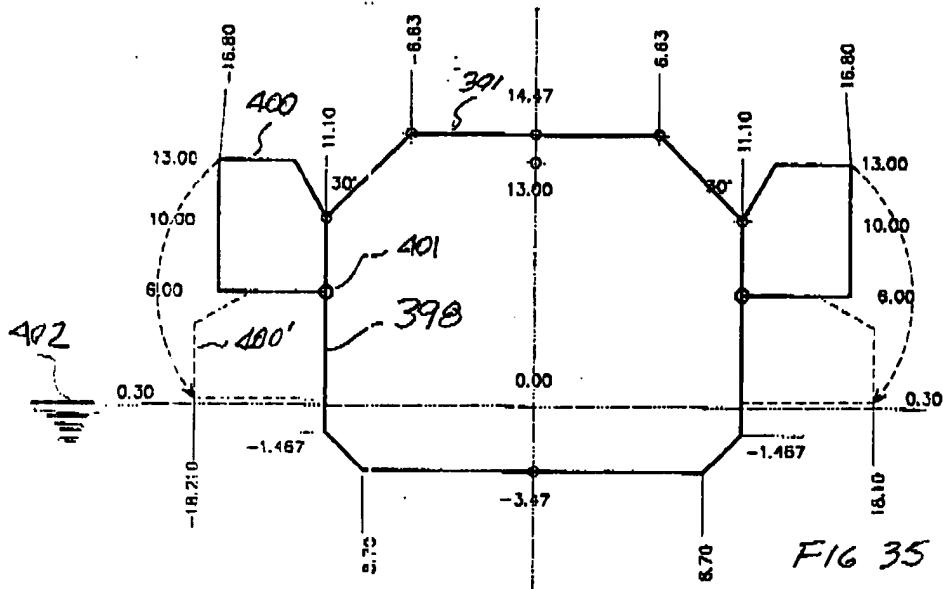


FIG 34

FIG 35

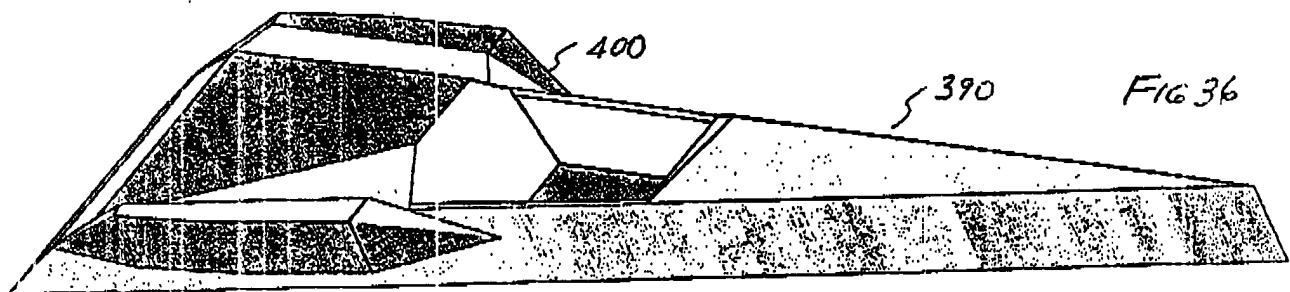


FIG 36

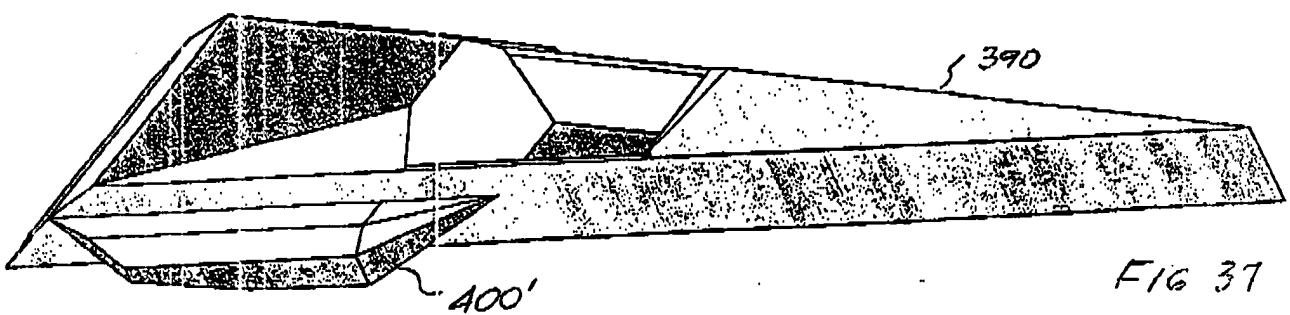
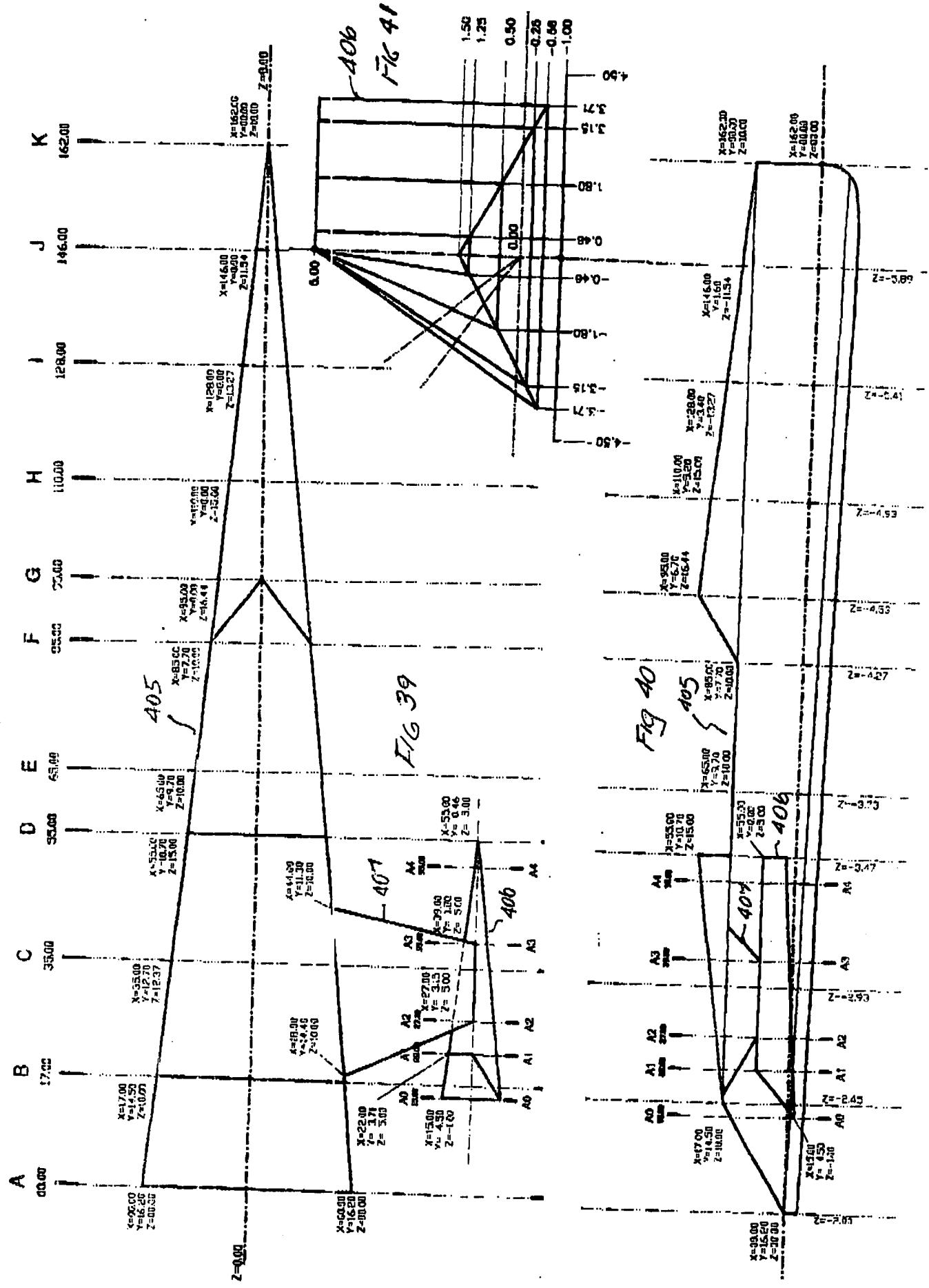
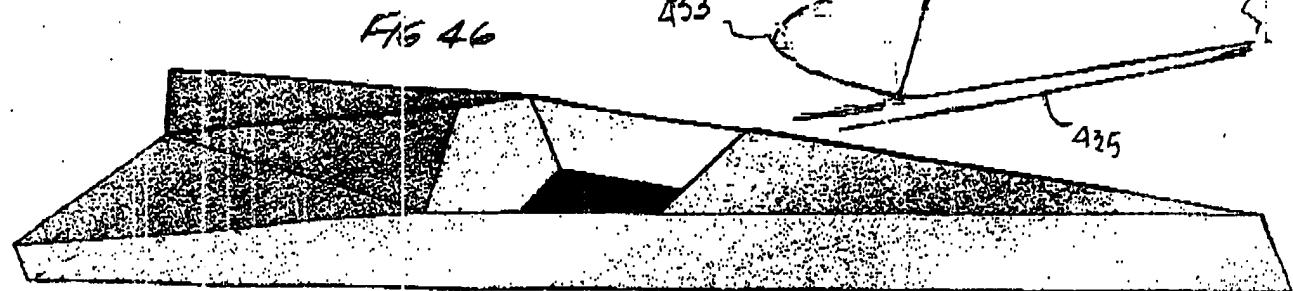
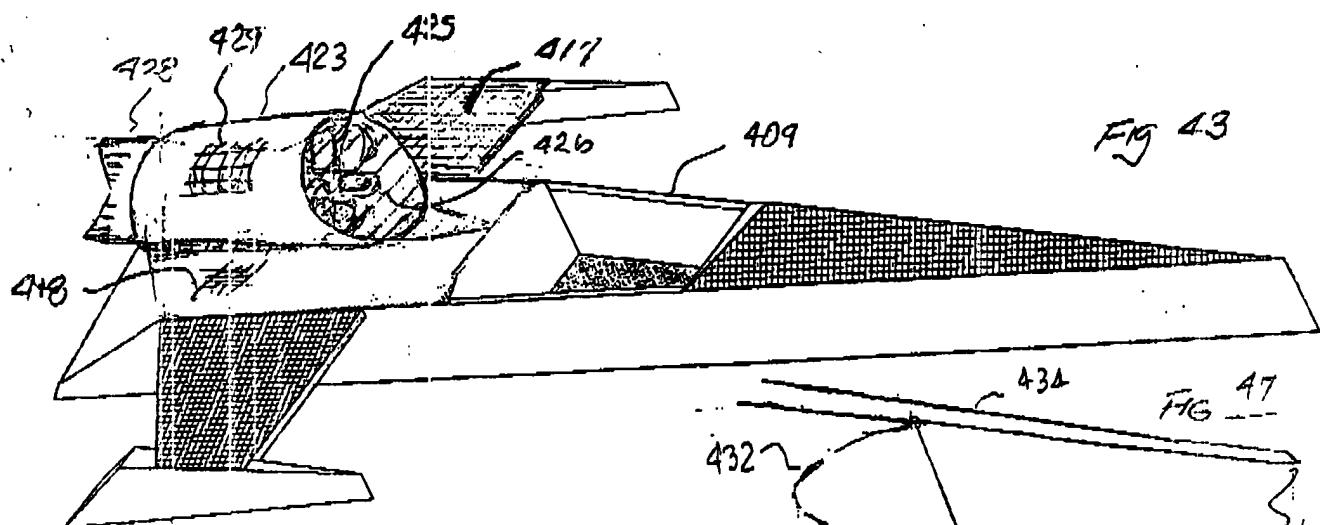
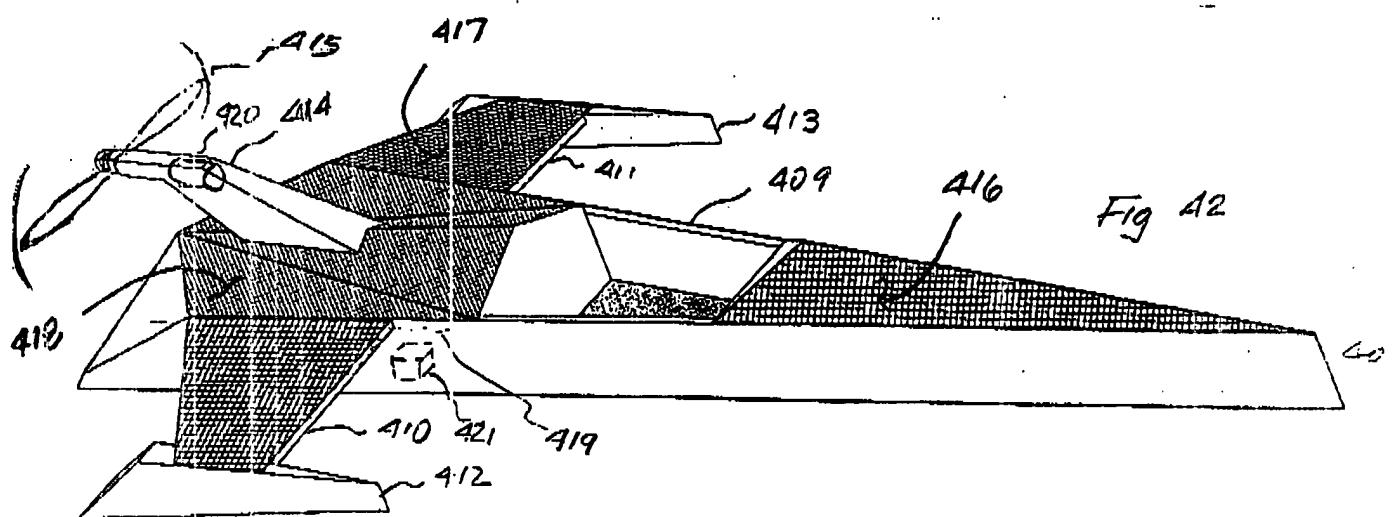
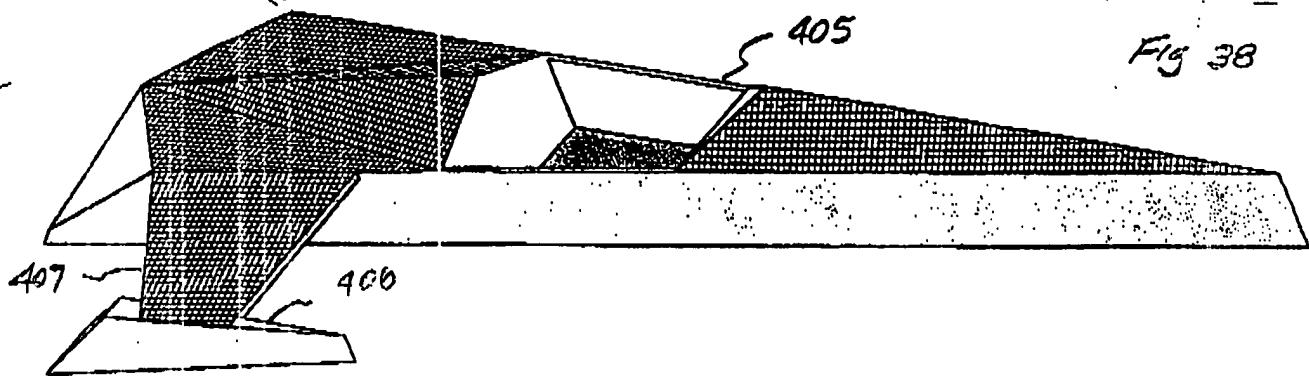


FIG 37





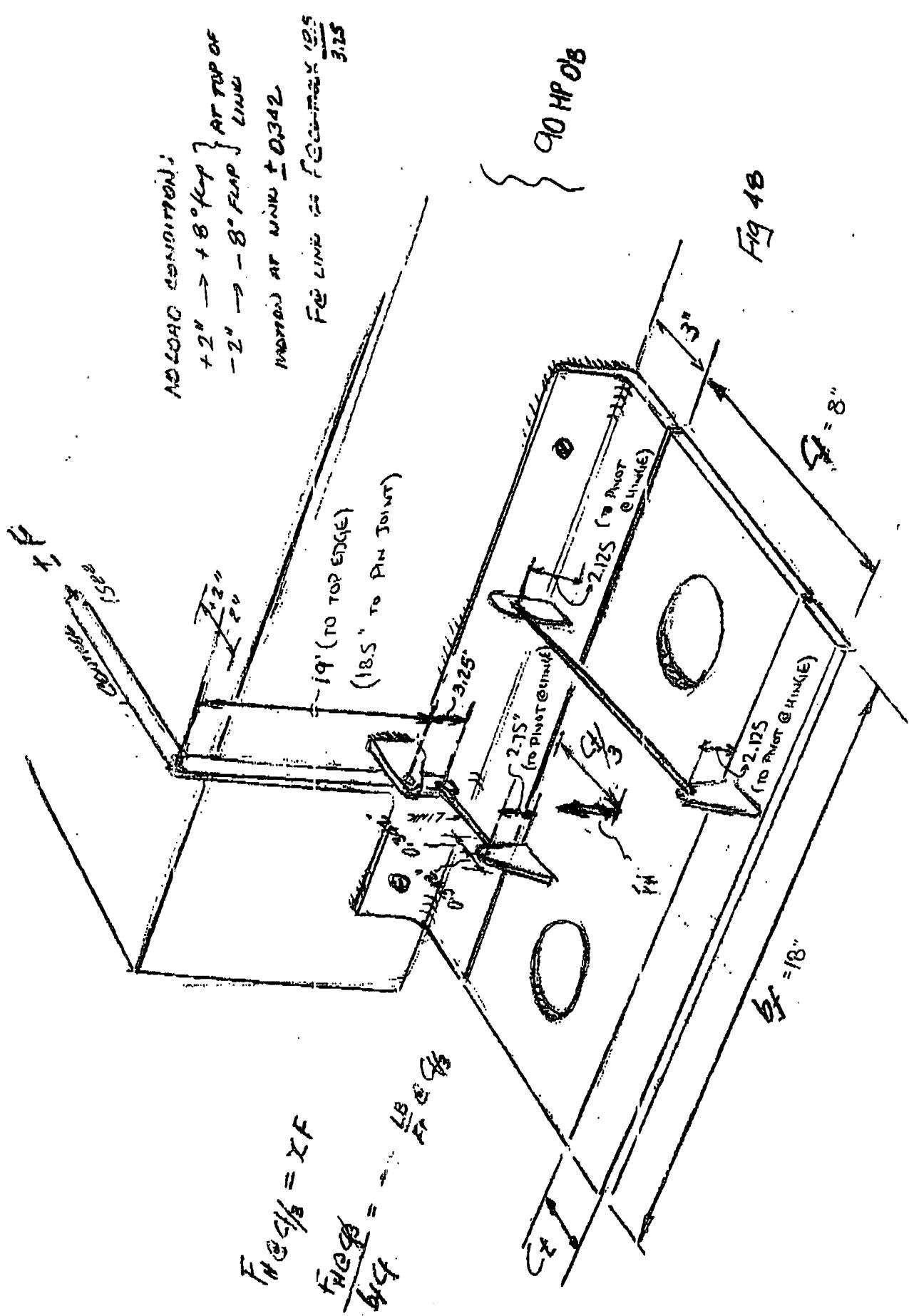
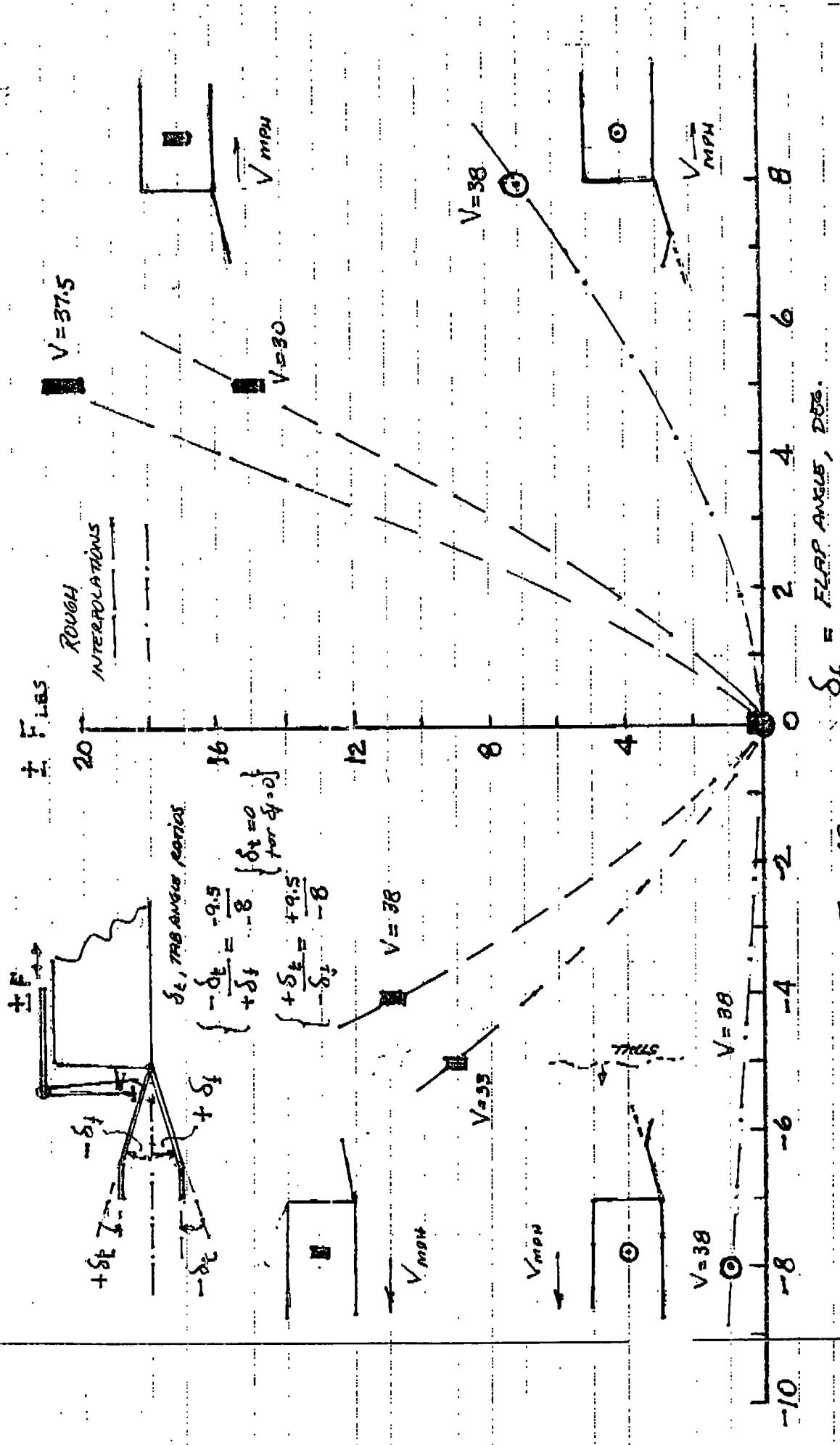


Fig 48



E-10 49